

5' NCA ATG GGC CGG CCG TGG GAA GGG TGA ATG TGG GTC CAG ACC CGC CCC TCC TCA

	9	18	27	36	45	54
GCT	TCC	TAT	AAA	AGC	TGG	GAA
S	R	P	E	T	F	L
TCC	AGG	AGA	CCA	GAG	ACC	TTT
G	L	G	C	P	L	H
GGT	CTT	GGG	TGC	CCA	CTA	CAC
H	G	Q	M	K	T	C
CAT	GGC	CAA	ATG	AAG	ACC	TGC
G	K	A	A	T	S	K
GGG	AAG	GCT	ACT	TCA	AAG	GGC
R	S	Q	D	C	Y	S
333	342	342	351	360	369	378
AGG	TCC	CAG	GAC	TGC	TAC	TCC
R	S	Q	D	C	Y	S

FIGURE 1A

FIGURE 1B

THE HISTORY OF THE CHURCH OF ENGLAND

FIGURE 1C

卷之三

Figure 2A

卷之三

		TATAAAGCTGGGACCAAGGTACTGCTGAT	consensus
1	1	- - - - - GGA - - - - -	8941
2	2	- - - - - GGA - - - - -	10033
1	1	- - - - - GGA - - - - -	10644
1	1	- - - - - GGA - - - - -	10774
1	1	- - - - - GGA - - - - -	71854
1	1	- - - - - GGA - - - - -	72861
15	15	- - - - - GGA - - - - -	74452
61	61	TATAAAGCTGGGACCAAGGTACTGCTGAT	155045
30	-	- GTTGGGA - - - - -	156817
1	-	- GGTGGGA - - - - -	619856
16	16	TGCAGCCACTGGAAATCAAG - - -	683480
91	91	A C A C A C C A T G A G G C T C T C C A G G A G C C A	1291208
6	6	- C C T A G G G T T - - - - -	consensus
2	2	- - - - - A G G C - - - - -	8941
2	2	- - - - - A G G C - - - - -	10033
1	1	- - - - - A G G C - - - - -	10644
1	1	- - - - - A G G C - - - - -	10774
1	1	- - - - - A G G C - - - - -	71854
1	1	- - - - - A G G C - - - - -	72861
15	15	- - - - - A G G C - - - - -	74452
91	91	A C A C A C C A T G A G G C T C T C C A G G A G C C A	155045
40	-	- C C T A G G G T T - - - - -	156817
1	-	- A G G C - - - - -	619856
36	-	- A G G C C C - - - - -	683480
		- A G G C C C - - - - -	1291208

Figure 2B

卷之三

121	GAGACCTTCTGGCTTGTGTTGCTC	consensus
19	AAGACCTT	8941
2	- - - - -	- - - - -
2	- - - - -	- - - - -
1	- - - - -	- - - - -
1	- - - - -	- - - - -
1	- - - - -	- - - - -
1	- - - - -	- - - - -
15	- - - - -	- - - - -
121	GAGACCTTCTGGCTTGTGTTGCTC	10033
53	AAGACCTT	10644
1	- - - - -	- - - - -
42	AA	10774
151	TGCACCCCTCCTGGGTCTGGCTTGGT	71854
27	- - - - -	72861
8	TNCACCCCTCCTGGGTCTGGCTTGGT	72861
2	- - - - -	74452
19	TGCACCCCTCCTGGGTCTGGCTTGGT	155045
3	- - - - -	156817
1	- - - - -	619856
42	AA	683480
151	T-CACCCCTCCTGGGTCTN	1291208
61	TGCACCCCTCCTGGGTCTGGT	1291208
47	CG	1291208

Figure 2C

181	CACTGCCAATAATGTAACGGCGGGGAGC	consensus
38	--TGAAAGC	
38	CACTGCCAATAATGTAACGGCGGGGAGC	8941
2	--	
49	CACTGCCAATAATGTAACGGCGGGGAGC	10033
3	--	
1	--	
1	--	
49	CACTGCCAANTATGTAACGGCGGGTAGC	10644
181	CACTGCCAATAATGTAACGGCGGGAGC	10774
72	--TGAAAGC	
1	--TGAAAGC	
71	NNNNNCATAGGCC-CGGCCGTGGGAAAG-	71854
		72861
		74452
		155045
		156817
		619856
		683480
		1291208
211	AGGTGCCATGGCCAAATGAAGACCTGCAGC	consensus
51	--TGGTCAGC	
68	AGGTGCCATGGCAAATGAAGACCTGCAGC	8941
2	--	
79	AGGTGCCATGGCAAATGAAGACCTGCAGC	10033
3	--	
1	--	
1	--	
79	AGGTTCCTCATGNCCAAATNAAGANCTTCANC	10644
211	AGGTGCCATGGCAAATGAAGACCTGCAGC	10774
85	--TGGTCAGC	
1	--	
99	-GGTG--	
		71854
		72861
		74452
		155045
		156817
		619856
		683480
		1291208

Figure 2D

241	A G T G A C A A G G A C A C A T G T G T G C T C C T G G T C	consensus
63	A C T G T C - - - - - C C T G C T C C A - T C	8941
98	A G T G A C A A G G A C A C A T G T G T G C T C C T G G T C	10033
2	- - - - - A C A C A T G T G T N C T C C T G G T C	10644
109	A G T G A C A A G G A C A C A T G T G T G C T C C T G G T C	10774
3	- -	-
1	- -	71854
1	- -	-
109	N G T G A C A A G G A C A C A T G T N T G C T C C T G G T C	74452
241	A G T G A C A A G G A C A C A T G T G T G C T C C T G G T C	155045
97	A C T G T C - - - - - C C T G C T G T C C C A - T C	156817
1	- -	619856
116	- -	683480
271	G G G A A G G C T A C T T C A A G G C A A G G A G T T G	1291208
85	- - - - - C C A - - C A G A G G C A A G G A G T T G	consensus
128	G G G A A G G C T A C T T C A A A G G C A A G G A G T T G	8941
22	G G G A A G G C T A C T T C A A A G G C A A G G A G T T G	10033
139	G G G A A G G C T A C T T C A A A G G C A A G G A G T T G	10644
3	- -	10774
1	- -	71854
1	- -	72861
139	G G N A A G N C T A C T T C A A A G G C A A G G A G T T G	74452
271	G G G A A G G C T A C T T C A A A G G C A A G G A G T T G	155045
119	- - - - - C C A - - C A G A G G C A A G G A G T T G	156817
1	- -	619856
130	A G - - - - - C T T C - - - - - - - - - - - - -	683480
		1291208

Figure 2E

301	G T G C A C A C C T A C A A G G G C T G C A T C A G G T C C	consensus
105	G T G C A C A C C T A C A A G G G C T G C A T C A G G T C C	8941
158	G T G C A C A C C T A C A A G G G C T G C A T C A G G T C C	10033
52	G T G C A C A C C T A C A A G G G C T G C A T C A G G T C C	10644
169	G T G C A C A C C T A C A A G G G C T G C A T C A G G T C C	10774
3	- -	
5	G T G C A C A C C T A C A A G G G C T G C A T C A G G T C C	71854
1	- -	
169	G T G C A C	72861
301	G T G C A C A C C T A C A A G G G C T G C A T C A G G T C C	155045
139	G T G C A C A C T A C A A G G G C T G C A T C A G G T C C	156817
5	G T G C A C A C C T A C A A G G G C T G C A T C A G G T C C	619856
136	- -	683480
331	C A G G A C T G C T A C T C C G G C G T T A T A T C C A C C	consensus
135	C A G G A C T G C T A C T C C G G C G T T A T A T C N A C C	8941
188	C A G G A C T G C T A C T C C G G C G T T A T A T C C A C C	10033
82	C A G G A C T G C T A C T C C G G N G T T A T A T C C A C C	10644
199	C A G G A C T G C T A C T C C G G C G T T A T A T C C A C C	10774
3	- -	
35	C A G G A C T T C T A C T C C G G N G T T A T A T C C A C C	71854
1	- -	
174	C A G G A C T T C C G G C G T T A T A T C C A C C	72861
331	C A G G A C T G C T A C T C C G G C G T T A T A T C C A C C	74452
169	C A G G A C T G C T A C T N C G G N G T T A T A T C C A C C	155045
35	C A G G A C T G C T A C T C C G G C G T T A T A T N C A C C	156817
148	- -	619856
		683480
		1291208

Figure 2F

361	A	C	C	A	T	G	G	C	C	C	A	G	G	A	C	C	A	C	A	T	G	G	T	A	A	C	C	consensus	
165	A	C	C	A	T	G	G	C	C	C	A	G	G	A	C	C	A	C	A	T	G	G	T	A	A	C	C	8941	
218	A	C	C	A	T	G	G	C	C	C	A	G	G	A	C	C	A	C	A	T	G	G	T	A	A	C	C	10033	
112	A	C	C	A	T	G	G	C	C	C	A	G	G	A	C	C	A	C	A	T	G	G	T	A	A	C	C	10644	
229	A	C	C	A	T	G	G	C	C	C	A	G	G	A	C	C	A	C	A	T	G	G	T	A	A	C	C	10774	
20	A	C	C	A	T	G	G	C	C	C	A	G	G	A	C	C	A	C	A	T	G	G	T	A	A	C	C	71854	
65	A	C	C	A	T	G	G	C	C	C	A	G	G	A	C	C	A	C	A	T	G	G	T	A	A	C	C	72861	
20	A	C	C	A	T	G	G	C	C	C	A	G	G	A	C	C	A	C	A	T	G	G	T	A	A	C	C	74452	
174																													155045
361	A	C	C	A	T	G	G	C	C	C	A	G	G	A	C	C	A	C	A	T	G	G	T	A	A	C	C	156817	
199	A	C	C	A	T	G	G	C	C	C	A	G	G	A	C	C	A	C	A	T	G	G	T	A	A	C	C	619856	
65	A	C	C	A	T	G	G	N	C	C	A	G	G	A	C	C	A	C	A	T	G	G	T	A	A	C	C	683480	
148	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1291208		
391	A	G	C	T	C	C	T	T	G	N	T	G	C	T	G	C	A	G	G	A	G	G	C	T	G	C	consensus		
195	A	G	C	T	C	C	T	T	C	T	G	C	T	G	C	-	A	G	G	C	G	G	C	T	G	C	8941		
248	A	G	C	T	C	C	T	T	C	T	G	C	T	G	C	C	A	G	G	C	G	G	C	T	G	C	10033		
142	A	G	C	T	C	C	T	T	C	T	G	C	T	G	C	C	A	G	G	C	G	G	C	T	G	C	10644		
259	A	G	C	T	C	C	T	T	C	T	G	C	T	G	C	C	A	G	G	C	G	G	C	T	G	C	10774		
50	A	G	C	T	C	C	T	T	C	T	G	C	T	G	C	C	A	G	G	C	G	G	C	T	G	C	71854		
95	A	G	C	T	C	C	T	T	N	T	G	C	T	G	C	C	A	G	G	C	G	G	C	T	G	C	72861		
50	A	G	C	T	C	C	T	T	G	C	T	G	C	T	G	C	A	G	G	C	G	G	C	T	G	C	74452		
174																													155045
391	A	G	C	T	C	C	T	T	G	C	T	G	C	C	A	G	G	A	G	G	C	G	G	C	T	G	C	156817	
224																													619856
95	A	G	C	T	C	C	T	T	G	C	T	G	C	C	A	G	G	A	C	G	N	C	T	G	C	683480			
159	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1291208			

Figure 2G

421	A	A	C	A	G	T	G	C	T	T	G	T	C	T	C	T	C	T	G	A	C	C	consensus	
225	A	A	C	A	G	T	G	C	T	T	G	T	C	T	C	T	G	A	C	C	8941			
277	A	A	C	A	G	T	G	C	T	T	G	T	C	T	C	T	G	A	C	C	10033			
172	A	A	C	A	G	T	G	C	T	T	G	T	C	T	C	T	G	A	C	C	10644			
289	A	A	C	A	G	T	G	C	T	T	G	T	C	T	C	T	G	A	C	C	10774			
80	A	A	C	A	N	T	G	C	T	T	T	N	T	N	T	N	T	G	A	C	C	71854		
125	A	A	C	A	T	T	G	C	T	T	T	N	T	N	T	N	T	G	T	N	C	72861		
80	A	A	C	A	N	T	G	C	T	T	T	N	T	N	T	N	T	G	A	C	C	74452		
174																						155045		
421	A	A	C	A	G	T	G	C	T	T	G	T	C	T	C	C	T	T	G	A	C	C	156817	
224																							619856	
125	A	A	C	A	G	T	G	C	T	T	G	T	C	T	C	C	T	T	G	A	C	C	683480	
163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1291208	
451	A	A	T	C	T	A	C	T	G	A	A	T	G	G	C	C	T	G	A	T	G	C	C	consensus
255	A	A	T	C	T	A	C	T	G	A	A	T	G	G	C	C	T	G	A	T	G	C	C	8941
307	A	A	T	C	T	A	C	T	G	A	A	T	G	G	C	C	T	G	A	T	G	C	C	10033
202	A	A	T	N	T	A	C	T	G	A	A	T	N	G	N	C	T	G	A	T	G	C	C	10644
319	A	A	T	C	T	A	C	T	G	A	A	T	G	G	C	C	T	G	A	T	G	C	C	10774
110	A	A	T	C	T	A	C	T	G	A	A	T	G	G	C	C	T	G	A	T	G	C	C	71854
151																							72861	
110	A	A	T	C	T	A	C	T	G	A	A	T	G	G	C	C	T	G	A	T	G	C	C	74452
174																							155045	
451	A	A	T	C	T	A	C	T	G	A	A	T	G	G	C	C	T	G	A	T	G	C	C	156817
224																							619856	
155	A	A	T	C	T	A	C	T	G	A	A	T	G	G	C	C	T	G	A	T	G	C	C	683480
163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1291208

Figure 2H

	481	GCCTGCACTGCCAGCTTCAGGGACAAATGC	consensus
285	GC-TGCACTGCCAGTTNAGGGNCAA	- - -	8941
324	GNC TGC ACT GN GAG C TT CAG GG A C AA AT GC	10033	
232	GNC TGC ACT GN GAG C TT CAG GG A C AA AT GC	10644	
349	GCC TGC ACT GCC AGC TT CAG GG A C AA AT GC	10774	
140	GCC TGC ACT GCC AGC TT CAG GG A C AA AT GC	71854	
151	GCC TGC ACT GCC AGC TT CAG GG A C AA AT GC	72861	
140	GCC TGC ACT GCC AGC TT CAG GG A C AA AT GC	74452	
174	GCC TGC ACT GCC AGC TT CAG GG A C AA AT GC	155045	
481	GCC TGC ACT GCC AGC TT CAG GG A C AA AT GC	156817	
224	GNC TGC ACT GCC AGC TT NAGGGACA AA AT GC	619856	
185	GNC TGC ACT GCC AGC TT NAGGGACA AA AT GC	683480	
171	-- - A C A C - - - - - - - - - - C	1291208	
511	ATGGGCCATGCCACCTGTACTGGAAAAG	consensus	
311	-- - - ATNCATG - - - - - - - - - - - -	8941	
324	-- - - - - - - - - - - - - - - - - - - -	10033	
262	-- - - - - - - - - - - - - - - - - - - -	10644	
379	ATGGGCCATGCCACCTGTACTGGAAAAG	10774	
170	ATGGGCCATGCCACCTGTACTGGAAAAG	71854	
151	ATGGGCCATGCCACCTGTACTGGAAAAG	72861	
170	ATGGGCCATGCCACCTGTACTGGAAAAG	74452	
174	ATGGGCCATGCCACCTGTACTGGAAAAG	155045	
511	ATGGGCCATGCCACCTGTACTGGAAAAG	156817	
224	ATGGGCCATGCCACCTGTACTGGAAAAG	619856	
215	ATGGGCCATGCCACCTGTACTGGAAAAG	683480	
176	ATGAAGGCTC - - - TCCA - - - - - - - -	1291208	

Figure 2I

541	G A A A C C A C T G C G T C T C C T T A T C T G G A C A C	consensus
318	- -	8941
324	- -	10033
262	- -	10644
409	G A A A C C A C T G C G T C T C C T T A T G T G G A C A C	10774
185	- -	71854
151	- - - - - - - - - - - C T G C - - - - - - - - - - - - - - -	72861
191	- - - - - - - - - - - C T G C - - - - - - - - - - - - - - -	74452
174	G A A A C C A C T G C G T C T C C T T A T C T G G A C A C	155045
541	G A A A C C A C T G C G T C T C C T T A T C T G G A C A C	156817
224	- -	619856
245	G A A A A C C A	683480
189	G G A G A C C A - - - - - - - - - - - - - - - - - - -	1291208
571	G T G C A G G C T G G T A T T T C A A A C C C A G A T T T	consensus
318	- -	8941
324	- -	10033
262	- -	10644
439	G T G C A T G C T G G T A T T T C A A A C C C A G A T T T	10774
185	- -	71854
151	- - - - - - - - - - - T A C T C - - - - - - - - - - - - -	72861
195	- - - - - - - - - - - T A C T C - - - - - - - - - - - - -	74452
174	G T G C A G G C T G G T A T T T C A A A C C C A G A T T T	155045
571	G T G C A G G C T G G T A T T T C A A A C C C A G A T T T	156817
224	- -	619856
252	- - - - - - - - - - - - - - - - - C T T T C - - - - - - -	683480
202	- - - - - - - - - - - - - - - - - C T T T C - - - - - - -	T 1291208

Figure 2J

Figure 2K

	601	G C T A T G C G G G C T G C T A C A G A G T A T G	consensus
318	- - - - -	G G G G - - - - -	8941
324	- - - - -	- - - - -	10033
262	- - - - -	- - - - -	10644
469	G C T A T G C G G G C T G C T A C A G A G T A T G	10774	
185			71854
151	- - - - -	C G G N G T T A T A - - - - -	72861
200	- - - - -	- - - - -	74452
174	G C T A T G C G G G C T G C T A C A G A G T A T G	155045	
601	G C T A T G C G G G C T G C T A C A G A G T A T G	156817	
224			619856
252	G C T - - - - -	G G C - - - - -	683480
208	G C T - - - - -	- - - - -	1291208
631	T G C T T A C C A A G C C T G G T G C T G A A G T A C C C	consensus	
322	- - - - -	- - - - -	8941
324			10033
262	T G C T T A C C A A G C C T G G T G C T G A A G T A C C C	10644	
499	T G C T T A C C A A G C C T G G T G C T G A A G T A C C C	10774	
185			71854
151	- - - T C C A C C A - - - - -	- - - C C	72861
210	- - - T C C A C C A - - - - -	- - - C C	74452
174	T G C T T A C C A A G C C T G G T G C T G A A G T A C C C	155045	
631	T G C T T A C C A A G C C T G G T G C T G A A G T A C C C	156817	
224			619856
252	- - C T T T - - - - -	- - - G T G T T G - - -	683480
214	- - C T T T - - - - -	- - - G T G T T G - - -	1291208

Figure 2K

Figure 2L

661	A C A G G C A C C A A T G T C C T C T C C T C C A T C A T	consensus
322	- -	8941
324		10033
262		10644
529	A C A G G C A C C A A T G T C C T C T C C T C C A T C A T	10774
185		71854
151	A T G G G C C C C A A G G - - - - - - - - - - - - - - -	72861
219		74452
174		155045
661	A C A G G C A C C A A T G T C C T C T C C T C C A T C A T	156817
224		619856
252		683480
224	- C T C - - - - -	1291208
691	A T A G A G T G C A C T C A C T C C C C C T G A A A A G C T	consensus
322	- -	8941
324		10033
262		10644
559	A T A G A G T G C A C T C A C T C C C C C T G A A A A G C T	10774
185		71854
151		72861
237	A T G - - G T A - A C C C A G C T C C T C T G - - - - - C T	74452
174		155045
691	A T A G A G T G C A C T C A C T C C C C C T G A A A A G C T	156817
224		619856
252		683480
227	- - - - - T G C A C - - - - C C T C C T G G G - - - - -	1291208

Figure 2L

721	A T C T G A A C A G A G G A A G A T A A T G T A G T G T G A	consensus
322	- -	8941
324		10033
262		10644
589	A T C T G A A C A G A G G A A G A T A A T G T A G T G T G A	10774
185		71854
151	G C C A G C A G C N A C G G C - - - - - T G C A A C - - -	72861
259		74452
174	A T C T G A A C A G A G G A A G A T A A T G T A G T G T G A	155045
721		156817
224		619856
252		683480
241	- -	1291208
751	A G T C C C C A T T T G T C C T C A G C C T G T A A C T T C	consensus
322	- - - - C C C C A T T	8941
324		10033
262		10644
619	A G T C C C C A T T T G T T C C T A G N C T G T A A C T T C	10774
185		71854
151		72861
279	A N T G C C - - T T T N T - - - G T C T G T N - - - C	74452
174		155045
751	A G T C C C C A T T T G T C C T C A G C C T G T A A C T T C	156817
224		619856
252	- - - - - - - - - - - T C T T G G - - - - - - - - - - -	683480
241		1291208

Figure 2M

Figure 2N

781 C C C G T G T G - C C T A T A A A G A A G T T A A T A G A G consensus
327 8941
324 10033
262 10644
649 C C - G T G T G G C C T A T A A N G A A G T T A A T N G N G 10774
185 71854
151 72861
298 C C T - - T G A C C - - - - - A A T C T N A C T G A G 74452
174 155045
781 C C C G T G T G - C C T A T A A A G A A G T T A A T A G A G 156817
224 619856
252 683480
247 - - G T G C 1291208

810 C A A A A A A A A A A A A A A A A A A C T C G A G consensus
327 8941
324 10033
262 10644
678 C A A A N N A N A G A A A A A A 10774
185 71854
151 72861
318 - - - - - - - - - - - A A T N G C C T G A T T 74452
174 155045
810 C A A A A A A A A A A A A A A A A C T C G A G 156817
224 619856
252 683480
250 1291208

Figure 2N

1 M R L S R R P E T F L L A F V L L C T L L G L G C P L H C E GPL aa
1 M K - - - - - Y L H T I C L L F I F V A R G N S R S C D CNF aa

31 I C T A A G S R C H G Q M K T C S S D K D T C V L L V G K A GPL aa
24 F C H N I T G K D C D G Y E E E C S S P E D V C G K V L L E I CNF aa

61 T S K G K E L V H T Y K G C I R S Q D C Y S G V I S T T M G GPL aa
54 S S A S L S V R T V H K N C F S S S I C K L G Q F D V N T G CNF aa

91 P K D H M V T S S F C C Q S D G C N S - A F L S V P L T N L GPL aa
84 H H S Y I R G R I N C C E K E L C E D Q P F P G L P L S K - CNF aa

120 T E N G L M C P A C T A S F R D K C M G P M T H C T G K E N GPL aa
113 - P N G Y Y C P G A I G L F T K D S T E Y E A T C K G T E T CNF aa

150 H C V S L S G H V Q A G I F K P - - R F A M R G C A T E S M GPL aa
142 K C I N T V G H - R Y E Q F P G D I S Y N L K G C V S S - - CNF aa

178 C F T K P G A E V P T G T N V L F L H H I E C T H S P GPL aa
169 C P L L S L S N A T F E Q N R N Y L E K V E C K D A I R L A CNF aa

204 , GPL aa
199 S L , CNF aa

Figure 3

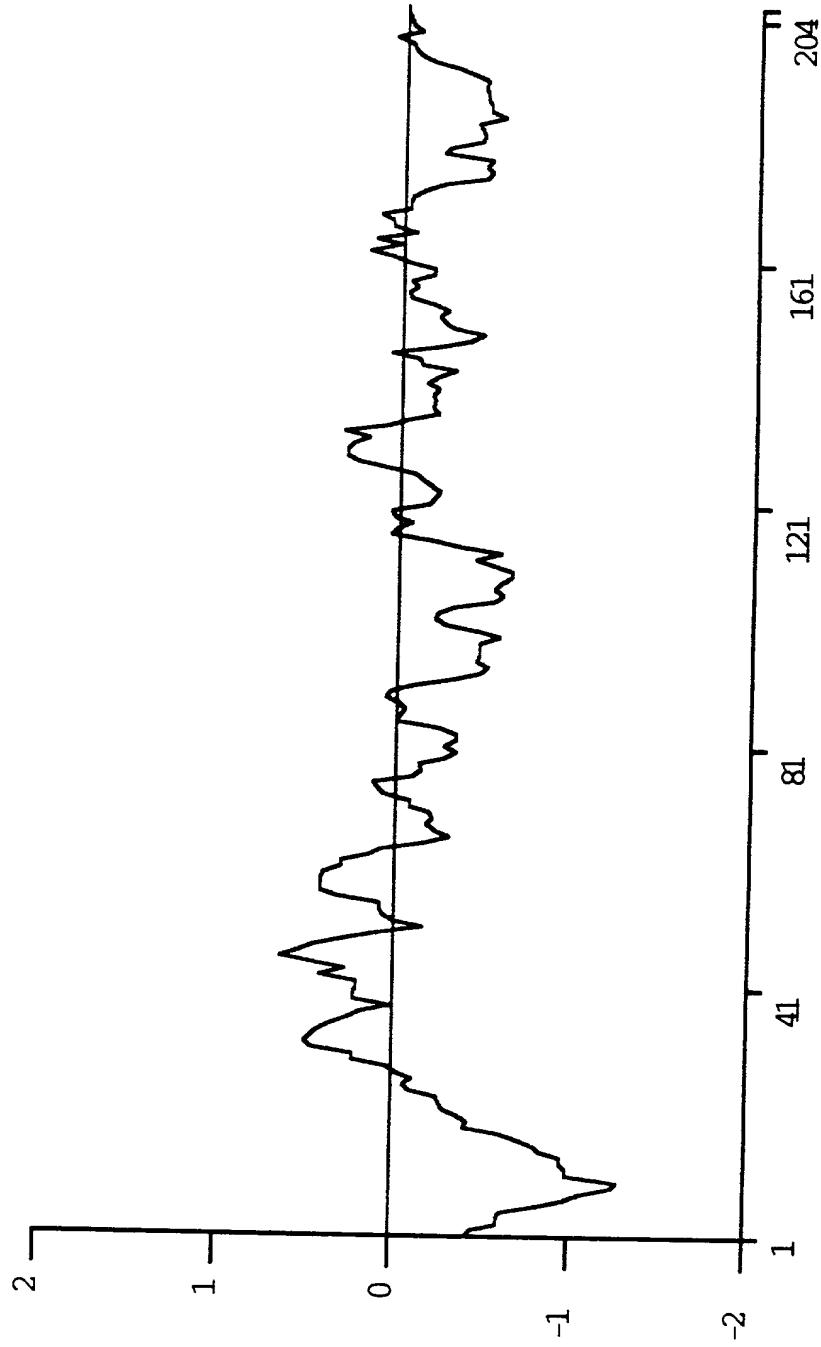


FIGURE 4

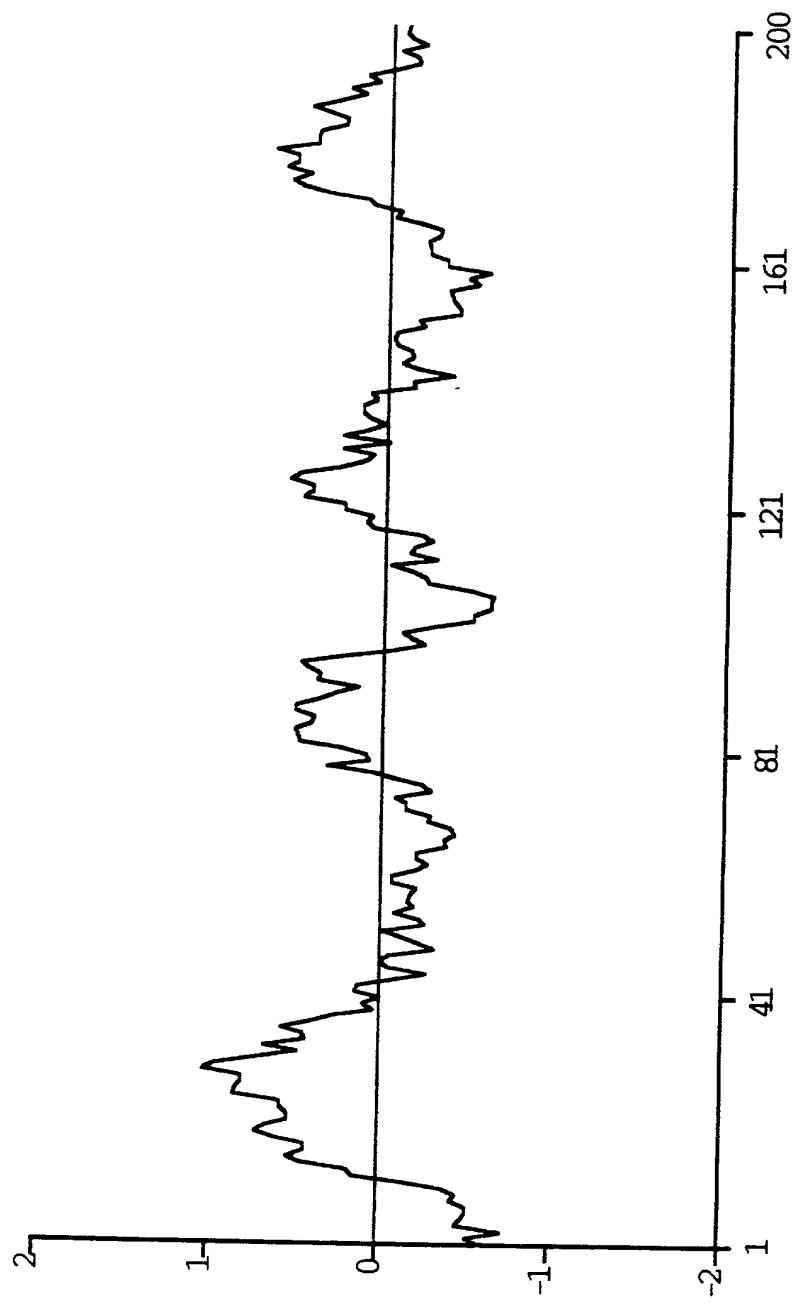


FIGURE 5

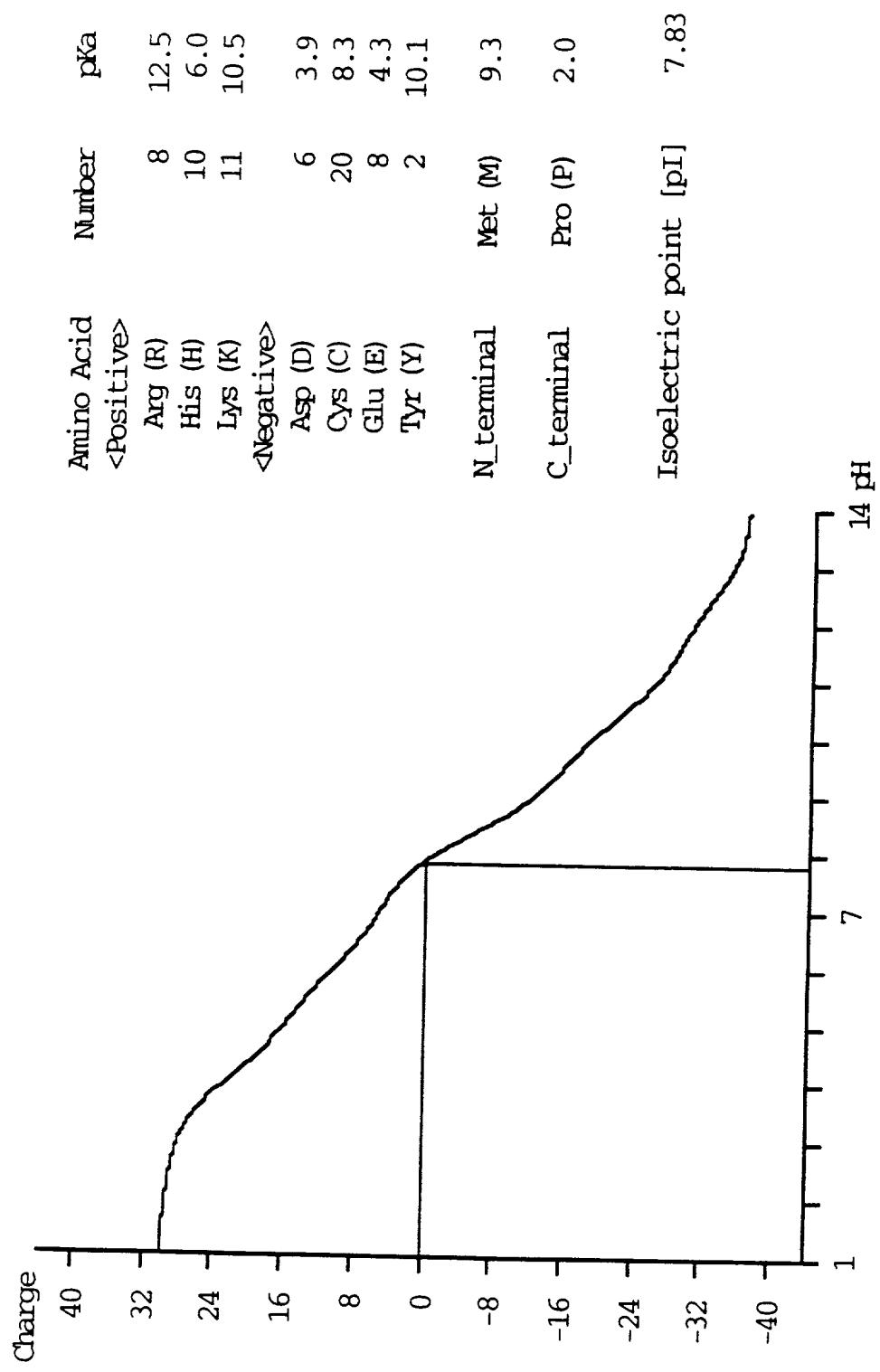


FIGURE 6

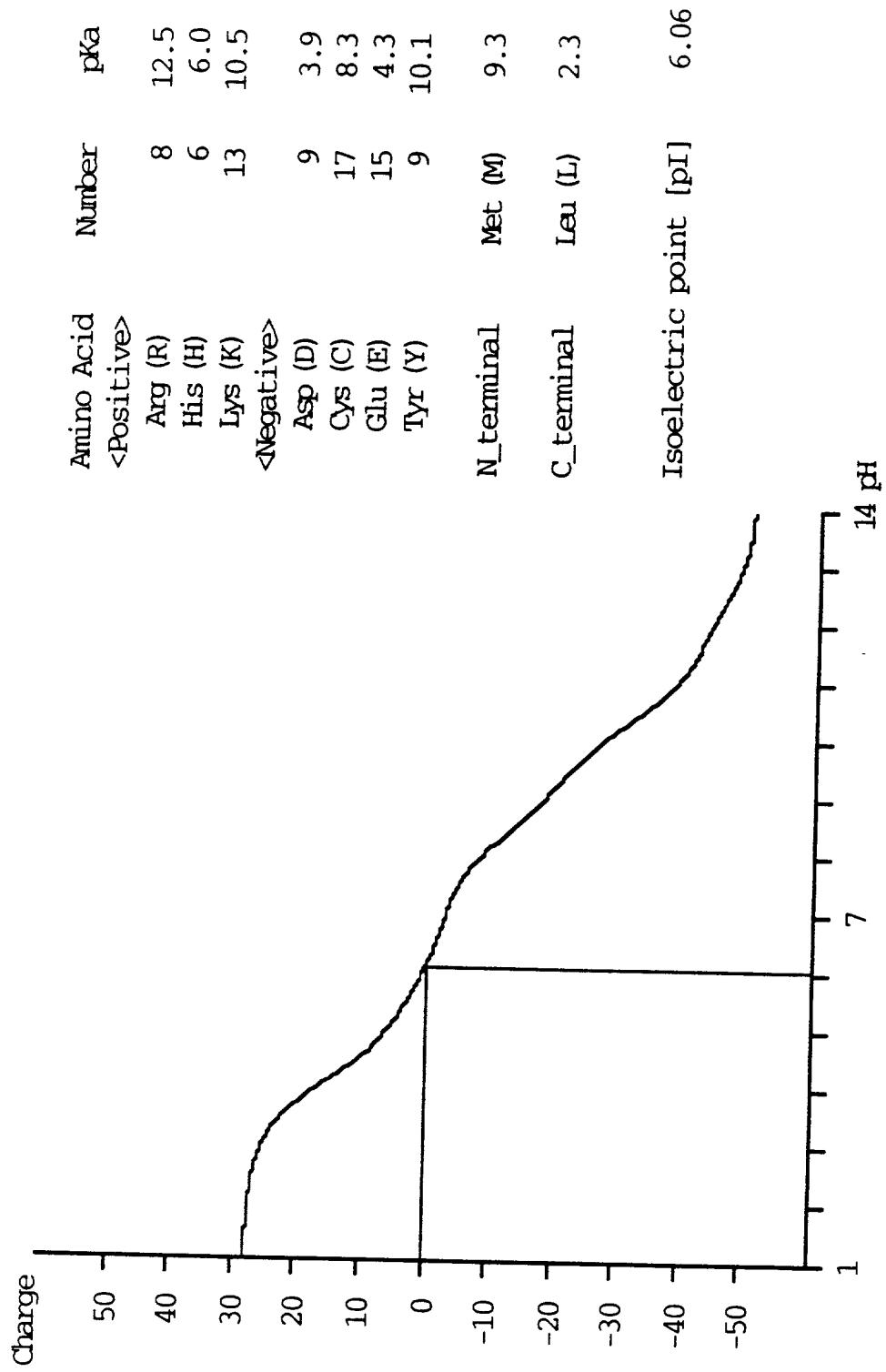


FIGURE 7

9 18 27 36 45 54

5' - NCA ATG CCC CGG CCC TGG GAA GGG TGA ATG TGG GTC CAG ACC CCC CCC TCC TCA

63 72 81 90 99 108

GCT TCC TAT AAA AGC TGG GGA CCA GGT ACT CCT GAT ACA CAC ACC ATG AGG CTC

M R L

117	126	135	144	153	162
TCC	AGG	AGA	CCA	GAG	ACC
S	R	R	P	E	T
171	180	189	198	207	216
GGT	CTT	GGG	TGC	CCA	CTA
G	L	G	C	P	L
225	234	243	252	261	270
CAT	GCC	CAA	ATG	AAG	ACC
H	G	Q	M	K	K
279	288	297	306	315	324
GGG	AAG	GCT	ACT	TCA	AAG
G	K	A	T	S	K
333	342	351	360	369	378
AGG	TCC	CAG	GAC	TGC	TAC
R	S	Q	D	C	Y
387	396	405	414	423	432
CAC	ATG	GTA	ACC	ACC	TCC
H	M	V	T	S	S
441	450	459	468	477	486
TTG	TCT	GTG	CCC	TTG	ACC
L	S	V	?	L	T
495	504	513	522	531	540
ACT	GCG	AGC	TTC	AGG	GAC
T	A	S	?	R	D

FIGURE 1A

549 558 567 576 585 594
 GAA AAC CAC TGC GTC TCC TTA TCT GGA CAC GTG CAG GCT GGT ATT TTC AAA CCC
 E N K C V S L S G H V Q A G I F K P

 603 612 621 630 639 648
 AGA TTT GCT ATG CGG GGC TGT CCT ACA GAG AGT ATG TGC TTT ACC AAG CCT GGT
 R F A M R G C A T E S M C F T K P G

 657 666 675 684 693 702
 GCT GAA GTA CCC ACA GGC ACC AAT GTC CTC TTC CTC CAT CAT ATA GAG TGC ACT
 A E V P T G T N V L F L H H I E C T

 711 720 729 738 747 756
 CAC TCC CCC TGA AAA GCT ATC TGA ACA GAG GAA GAT AAT GTA GTG TGA AGT CCC
 H S P

 765 774 783 792 801 810
 CAT TTG TCC TCA GCC TGT AAC TTC CCC GTG TGC CTA TAA AGA AGT TAA TAG AGC

 819 828 837
 AAA AAA AAA AAA AAA AAA AAC TCG AG 3'

FIGURE 1B

1	N C A A T G G G C C G G C C G T G G G A A G G G T G A A T G	consensus
1	- -	8941
1	G -	10033
1	G -	10644
1	- -	10774
1	- -	71854
1	- -	72861
1	- -	74452
1	- -	155045
1	N C A A T G G G C C G G C C G T G G G A A G G G T G A A T G	156817
1	A G A A A G A G A C C A T N C C A G G A A - - G T - - - T G	619856
1	- -	683480
1	G -	1291208
31	T G G G T C C A G A C C C G C C C C T C C C T C A G C T T C C	consensus
1	- -	8941
2	- -	10033
2	- -	10644
1	- -	10774
1	- -	71854
1	- -	72861
1	- -	74452
5	- -	155045
31	T G G G T C C A G A C C C G C C C C T C C C T C A G C T T C C	156817
25	T G G G -	619856
1	- -	683480
5	- -	1291208
51	T A T A A A A G C T G G G G A C C A G G T A C T G C T G A T	consensus
1	- -	8941
1	G G A -	10033
2	- -	10644
2	- -	10774
1	- -	71854
1	- -	72861
1	- -	74452
15	- -	155045
61	T A T A A A A G C T G G G G A C C A G G T A C T G C T G A T	156817
30	- - - - - G T T G G G G A - - - - - - - - -	619856
1	- -	683480
15	T G C A G C C A C T G G G A A T C A A G - - - - -	1291208

FIGURE 2A

91 A C A C A C A C C A T G A G G C T C T C C A G G A G A C C A consensus
6 - - - - - C C T A G G G T T - - - - - A G G C - - 8941
2 - 10033
2 - 10644
1 - 10774
1 - 71854
1 - 72861
1 - 74452
15 - 155045
91 A C A C A C A C C A T G A G G C T C T C C A G G A G A C C A 156817
40 - - - - - C C T A G G G T T - - - - - A G G C - - 619856
1 - 683480
36 - A G G C C C 1291208

FIGURE 2B

121	G A G A C C T T T C T G C T G G C C T T T G T G T T G C T C	consensus
19	A A G A C C T T - - - - -	8941
2	- - - - -	10033
2	- - - - -	10644
1	- - - - - C T G G C C T T T G T G T T G C T C	10774
1	- - - - - C T - - - - -	71854
1	- - - - -	72861
1	- - - - -	74452
15	- - - - -	T N C N C
121	G A G A C C T T T C T G C T G G C C T T T G T G T T G C T C	155045
53	A A G A C C T T - - - - -	156817
1	- - - - -	619856
42	A A - - - - -	683480
		1291208
151	T G C A C C C T C C T G G G T C T T G G G T G C C C A C T A	consensus
27	- - - - - G A G G C A G G G G T - - - - -	8941
8	T N C A C C C T C C T G G G T C T T G G G T G C C C A C T A	10033
2	- - - - -	10644
19	T G C A C C C T C C T G G G T C T T G G G T G C C C A C T A	10774
3	- - - - -	71854-
1	- - - - -	72861
1	- - - - -	74452
20	T - C A C C C T C C N G G G T C T N G G G T G C C C A C N A	155045
151	T G C A C C C T C C T G G G T C T T G G G T G C C C A C T A	156817
61	- - - - - G A G G C A G G G G T - - - - -	619856
1	- - - - -	683480
47	C G - - - - T C T T G - G T C T T N N N N N N N N N N N N N N	1291208
		~
181	C A C T G C G A A A T A T G T A C G G G C G G G G G A G C	consensus
38	- - - - T G A A G C - - - - -	8941
38	C A C T G C G A A A T A T G T A C G G G C G G G G G A G C	10033
2	- - - - -	10644
49	C A C T G C G A A A T A T G T A C G G G C G G G G G A G C	10774
3	- - - - -	71854
1	- - - - -	72861
1	- - - - -	74452
49	C A C T G C G A A A N T A T G T A C G G G C G G G G G A G C	155045
181	C A C T G C G A A A A T A T G T A C G G G C G G G G G A G C	156817
72	- - - - T G A A G C - - - - -	619856
1	- - - - -	683480
71	N N N N N N C A A T G G G C - C G G G C G T G G G A A G -	1291208

FIGURE 2C

211 A G G T G C C A T G G C C A A A T G A A G A C C T G C A G C consensus
51 - - - - - T G G T C A G C - - - - - C A G C 8941
68 A G G T G C C A T G G C C A A A T G A A G A C C T G C A G C 10033
2 - 10644
79 A G G T G C C A T G G C C A A A T G A A G A C C T G C A G C 10774
3 - 71854
1 - 72861
1 - 74452
79 A G G T T C C A T G N C C A A A T N A A G A N C T T C A N C 155045
211 A G G T G C C A T G G C C A A A T G A A G A C C T G C A G C 156817
85 - - - - - T G G T C A G C - - - - - C A G C 619856
1 - 683480
99 - G G T G - - - - - A A T G T G G G T C - - C A G - 1291208

FIGURE 2D

241	A G T G A C A A G G A C A C A T G T G T G C T C C T G G T C	consensus
63	A C T G T C - - - - - C C T G C C T G T C C C C A - T C	8941
98	A G T G A C A A G G A C A C A T G T G T G C T C C T G G T C	10033
2	- - - - - A C A C A T G T G T N C T C C T G G T C	10644
109	A G T G A C A A G G A C A C A T G T G T G C T C C T G G T C	10774
3	- -	71854
1	- -	72861
1	- -	74452
109	N G T G A C A A G G A C A C A T G T N T G C T C C T G G T C	155045
241	A G T G A C A A G G A C A C A T G T G T G C T C C T G G T C	156817
97	A C T G T C - - - - - C C T G C C T G T C C C C A - T C	619856
1	- -	683480
116	- A C C C G C C C C T C C T C	1291208
271	G G G A A G G C T A C T T C A A A G G G C A A G G A G T T G	consensus
85	- - - - - C C A - - - C A G A G G G C A A G G A G T T G	8941
128	G G G A A G G C T A C T T C A A A G G G C A A G G A G T T G	10033
22	G G G A A G G C T A C T T C A A A G G G C A A G G A G T T G	10644
139	G G G A A G G C T A C T T C A A A G G G C A A G G A G T T G	10774
3	- -	71854
1	- T - T T G	72861
1	- -	74452
139	G G N A A G N C T A C T T C A A A G G G C A A G G A G T T G	155045
271	G G G A A G G C T A C T T C A A A G G G C A A G G A G T T G	156817
119	- - - - - C C A - - - C A G A G G G C A A G G A G T T G	619856
1	- G T T G	683480
130	A G - - - - - C T T C - - - - - - - - - - - - - - - - - - -	1291208
301	G T G C A C A C C T A C A A G G G C T G C A T C A G G T C C	consensus
105	G T G C A C A C C T A C A A A G G G C T G C A T C A G G T C C	8941
158	G T G C A C A C C T A C A A A G G G C T G C A T C A G G T C C	10033
52	G T G C A C A C C T A C A A A G G G C T G C A T C A G G T N C	10644
159	G T G C A C A C C T A C A A A G G G C T G C A T C A G G T C C	10774
3	- -	71854
5	G T G C A C A C C T A C A A A G G G C T G C A T C A G G T C C	72861
1	- -	74452
169	G T G C A C	155045
301	G T G C A C A C C T A C A A A G G G C T G C A T C A G G T C C	156817
139	G T G C A C A A C T A C A A A G G G C T G C A T C A G G T C C	619856
5	G T G C A C A C C T A C A A A G G G C T G C A T C A G G T C C	683480
136	- - - - - - - - - C T A T A A A A G C T G - - - - - - - - -	1291208

FIGURE 2E

FIGURE 2F

361	A C C A T G G G C C C C A A G G A C C A C A T G G T A A C C	consensus
165	A C C A T G G G C C C C A A G G A C C A C A T G G T A A C C	8941
218	A C C A T G G G C C C C A A G G A C C A C A T G G T A A C C	10033
112	A C C A T G G G C C C C A A G G A C C A C A T G G T A A C C	10644
229	A C C A T G G G C C C C A A G G A C C A C A T G G T A A C C	10774
20	A C C A T G G G C C C C A A G G A C C A C A T G G T A A C C	71854
65	A C C A T G G G C C C C A A G G A C C A C A T G G T A A C C	72861
20	A C C A T G G G C C C C A A G G A C C A C A T G G T A A C C	74452
174		155045
361	A C C A T G G G C C C C A A G G A C C A C A T G G T A A C C	156817
199	A C C A T G G G C C C C A A G G A C C A C A T G G T	619856
65	A C C A T G G G N C C C A A G G A C C A C A T G G T A A C C	683480
148	- - - - - G G G A C C A - - - G G T A - - -	1291208
391	A G C T C C T T C T G C T G C C A G A G C G A C G G C T G C	consensus
195	A G C T C C T T C T G N T G C C A G A G C G A C G G C T G C	8941
248	A G C T C C T T C T G C T G C - A G A G C G A C G G C T G C	10033
142	A G C T C C T T C T G C T G C C A G A G C G A C G G C T G C	10644
259	A G C T C C T T C T G C T G C C A G A G C G A C G G C T G C	10774
50	A G C T C C T T C T G C T G C C A G A G C G A C G G C T G C	71854
95	A G C T C C T T N T G C T G C C A G A G C G A C G G C T G C	72861
50	A G C T C C T T C T G C T G C C A G A G C G A C G G C T G C	74452
174		155045
391	A G C T C C T T C T G C T G C C A G A G C G A C G G C T G C	156817
224		619856
95	A G C T C C T T N T G C T G C C A G A G C G A C G N C T G C	683480
159	- - - - - - - - - - - C T G C	1291208
421	A A C A G T G C C T T T T G T C T G T T C C C T T G A C C	consensus
225	A A C A G T G C C T T T T G T C T G T T C C C T T G A C C	8941
277	A A C A G T G C C T T T T G T C T G T T C C C T T G A C C	10033
172	A A C A G T G C C T T T T G T C T G T T C C C T T G A C C	10644
289	A A C A G T G C C T T T T G T C T G T T C C C T T G A C C	10774
80	A A C A N T G C C T T T T N T N T G T T C C C T T G A C C	71854
125	A A C A T T G C C T T T T N T N T G T N C C C T T G	72861
80	A A C A N T G C C T T T T N T N T G T T C C C T T G A C C	74452
174		155045
421	A A C A G T G C C T T T T G T C T G T T C C C T T G A C C	156817
224		619856
125	A A C A G T G C C T T T T G T C T G T T C C C T T G A C C	683480
163	- - - - - - - - - - - - - - - - -	1291208

FIGURE 2G

451 A A T C T T A C T G A G A A T G G C C T G A T G T G C C C C consensus
255 A A T C T T A C T G A G A A T G G C C T G A T G T G C C C N 8941
307 A A T C T T A C T G A G A A T G G T 10033
202 A A T N T T A C T G A G A A T N G N C T G A T G T G C C C C 10644
319 A A T C T T A C T G A G A A T G G C C T G A T G T G C C C C 10774
110 A A T C T T A C T G A G A A T G G C C T G A T G T G C C C C 71854
151 72861
110 A A T C T T A C T G A G A A T G G C C T G A T G T G C C C C 74452
174 155045
451 A A T C T T A C T G A G A A T G G C C T G A T G T G C C C C 156817
224 619856
155 A A T C T T A C T G A G A A T G G C C T G A T G T G C C C C 683480
163 - 1291208

FIGURE 2H

481 G C C T G C A C T G C G A G C T T C A G G G A C A A A T G C consensus
 285 G C - T G C A C T G C G A G T T T N A G G G N C A A A - - - 8941
 324
 232 G N C T G C A C T G N G A G C T T C A G G G A C A A A T G C 10644
 349 G C C T G C A C T G C G A G C T T C A G G G A C A A A T G C 10774
 140 G C C T G C A C T G C G A G C T T C A G G G A C A A A T G C 71854
 151
 140 G C C T G C A C T G C G A G C T T C A G G G A C A A A T G C 74452
 174
 481 G C C T G C A C T G C G A G C T T C A G G G A C A A A T G C 156817
 224
 185 G N C T G C A C T G C G A G C T T N A G G G A C A A A T G C 683480
 171 - - - - A C A C - - - - - - - - - - - - - - - - C 1291208

511 A T G G G G C C C A T G A C C C A C T G T A C T G G A A A G consensus
 311 - - - - A T N C A T G - - - - - - - - - - - - - - - - 8941
 324
 252 - 10644
 379 A T G G G G C C C A T G A C C C A C T G T A C T G G A A A G 10774
 170 A T G G G G C C C A T G A C C C
 151
 170 A T G G G G C C C A T G A C C C - - - - C A G G A - - - 74452
 174
 511 A T G G G G C C C A T G A C C C A C T G T A C T G G A A A G 156817
 224
 215 A T G G G G C C C A T G A C C C A C T G T A C T G G A G A G 683480
 176 A T G A G G C T C - - - T C C A - - - - - - - - - - - - 1291208

541 G A A A A C C A C T G C G T C T C C T T A T C T G G A C A C consensus
 318 - 8941
 324
 262 - 10644
 409 G A A A A C C A C T G C G T C T C C T T A T G T G G A C A C 10774
 185
 151
 191 - - - - - C T G C - - - - - - - - - - - - - - - - - - - 74452
 174
 541 G A A A A C C A C T G C G T C T C C T T A T C T G G A C A C 156817
 224
 245 G A A A A C C A
 189 G G A G A C C A - - - - - - - - - - - - - - - - - - G A G A C 1291208

FIGURE 2I

571 G T G C A G G C T G G T A T T T C A A A C C C A G A T T T consensus
318 -
324 -
252 -
439 G T G C A T G C T G G T A T T T C A A A C C C A G A T T T 10644
185 -
151 -
195 - - - - - - - - - T A C T C - - - - - - - - - - - - - - -
174 -
571 G T G C A G G C T G G T A T T T C A A A C C C A G A T T T 156817
224 -
252 -
202 - - - - - - - - - - - - - C T T T C - - - - - - - - - - - T 1291208

FIGURE 2J

601 G C T A T G C G G G G C T G T G C T A C A G A G A G T A T G consensus
 318 - - - - - G G G G - 8941
 324 .
 262 - T 10644
 469 G C T A T G C G G G G C T G T G C T A C A G A G A G T A T G 10774
 185 .
 151 .
 200 - - - - - C G G N G T T A T A - - - - - - - - - - - - - 74452
 174 .
 601 G C T A T G C G G G G C T G T G C T A C A G A G A G T A T G 156817
 224 .
 252 .
 208 G C T - - - - - G G C - - - - - - - - - - - - - - - - - 1291208

 631 T G C T T T A C C A A G C C T G G T G C T G A A G T A C C C consensus
 322 - 8941
 324 .
 262 .
 499 T G C T T T A C C A A G C C T G G T G C T G A A G T A C C C 10774
 185 .
 151 .
 210 - - - T C C A C C A - - - - - - - - - - - - - C C 74452
 174 .
 631 T G C T T T A C C A A G C C T G G T G C T G A A G T A C C C 156817
 224 .
 252 .
 214 - - C T T T - - - - - - - G T G T T G - - - - - - - 1291208

 661 A C A G G C A C C A A T G T C C T C T T C C T C C A T C A T consensus
 322 - 8941
 324 .
 262 .
 529 A C A G G C A C C A A T G T C C T C T T C C T C C A T C A T 10774
 185 .
 151 .
 219 A T G G G C C C C A A G G - - - - - - - - - A C C A C 74452
 174 .
 661 A C A G G C A C C A A T G T C C T C T T C C T C C A T C A T 156817
 224 .
 252 .
 224 - - - - - - - - - - - - - - - - - - - C T C - - - - - - - 1291208

FIGURE 2K

691 A T A G A G T G C A C T C A C T C C C C C T G A A A A G C T consensus
322 - - - - - - - - - - - - - - - - - - -
324
262
559 A T A G A G T G C A C T C A C T C C C C C T G A A A A G C T 10774
185
151
237 A T G - - G T A - A C C A G C T C C T T C T G - - - - C T 74452
174
691 A T A G A G T G C A C T C A C T C C C C C T G A A A A G C T 156817
224
252
227 - - - - - T G C A C - - - - C C T C C T G G G - - - - 1291208

FIGURE 2L

721 ATCTGAACAGAGGAAGATAATGTTAGTGTGA consensus
 322 - - - - - - - - - - - - - - - - -
 324 8941
 262 10033
 589 ATCTGAACAGAGGAAGATAATGTTAGTGTGA 10644
 185 10774
 151 71854
 259 GCCAGAGCNACGGC - - - TGCAAC - - - 72861
 174 74452
 721 ATCTGAACAGAGGAAGATAATGTTAGTGTGA 155045
 224 156817
 252 619856
 241 - - - - - - - - - - - - - - - - - 683480
 74452
 155045
 156817
 619856
 683480
 1291208

751 AGTCCCCATTGTCCTCAGCCTGTAACTTT consensus
 322 - - - CCCATT 8941
 324 10033
 262 10644
 619 AGTCCCCATTGTCCTAGNCTGTAACTTT 10774
 185 71854
 151 72861
 279 ANTGCC - - TTTNT - - - GTCTGTN - - - C 74452
 174 155045
 751 AGTCCCCATTGTCCTCAGCCTGTAACTTT 156817
 224 619856
 252 683480
 241 - - - - - - - TCTTGG - - - - - - - - - 1291208

781 CCCGTGTG - CCTATAAAAGAAGTTAATAGAG consensus
 327 8941
 324 10033
 262 10644
 649 CC - GTGTGGCCCTATAANGAAGTTAATNGNG 10774
 185 71854
 151 72861
 298 CCT - - - TGACC - - - - AATCTNACTGAG 74452
 174 155045
 781 CCCGTGTG - CCTATAAAAGAAGTTAATAGAG 156817
 224 619856
 252 683480
 247 - - - GTGC 1291208

FIGURE 2M

810	C A C T C G A G	consensus
327		8941
324		10033
262		10644
678	C A A A N N N A A A G A A A A A A A A	10774
185		71854
151		72861
318	- A A T N G C C T G A T T	74452
174		155045
810	C A C T C G A G	156817
224		619856
252		683480
250		1291208

FIGURE 2N

1 MRLSRRPETFLLAFLVLLCTLLGLGCPLHCE GIPL aa
 1 MK-----YLTICLLEFIFVARGNNSRSCD CNF aa

 31 ICTAAAGSRCHGOMKTCSSDKDTCVLLVGKA GIPL aa
 24 FCHNIGKDCCDGYEEECSSPREDVCGKVLL EI CNF aa

 61 TSKGKELVHTYKGCI R SODCYSGVISTTMG GIPL aa
 54 SSASLSVRTVHKNCFSSSI CKLGOFDVNIG CNF aa

 91 PKDHMVTSSFC C QSDGCNS-AFLSVPLTNL GIPL aa
 84 HHSYIRGRIN C CEKELCEDOPFPGLPLSK- CNF aa

 120 TENGLMCPACTASFRDKCMGPMT HCTGKEN GIPL aa
 113 -PNGYYC PGAI GLFTKDST EYEAI CKGTET CNF aa

 150 HC VSLSGHVQAGIFKP--RFAMRG CATESM GIPL aa
 142 KC INIVGH-RYE OF PFGDISYNLKGCVSS- CNF aa

 178 CFTKPGAEVPTGTNVLF LHIECTHSP GIPL aa
 169 CPLLSLSNATEONRNYLEKVECKDAIRLA CNF aa

 204 [REDACTED] GIPL aa
 199 SL CNF aa

FIGURE 3

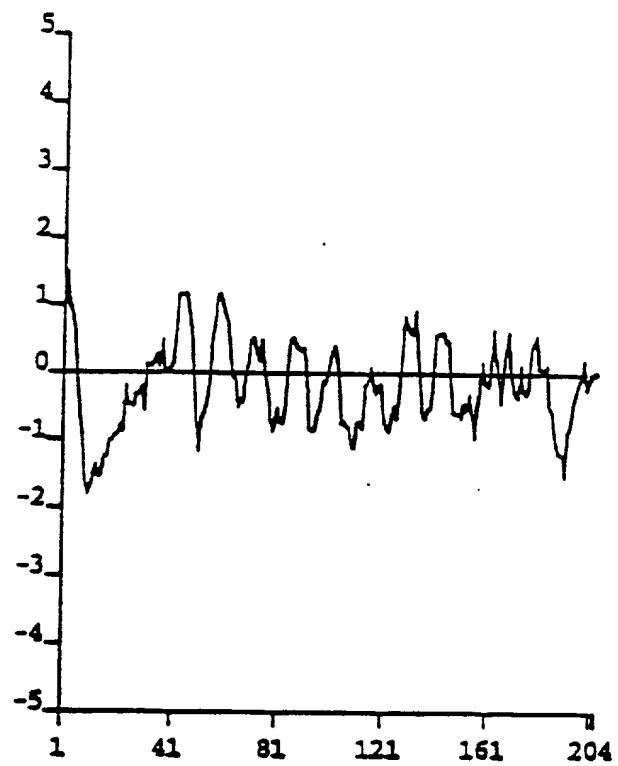


FIGURE 4

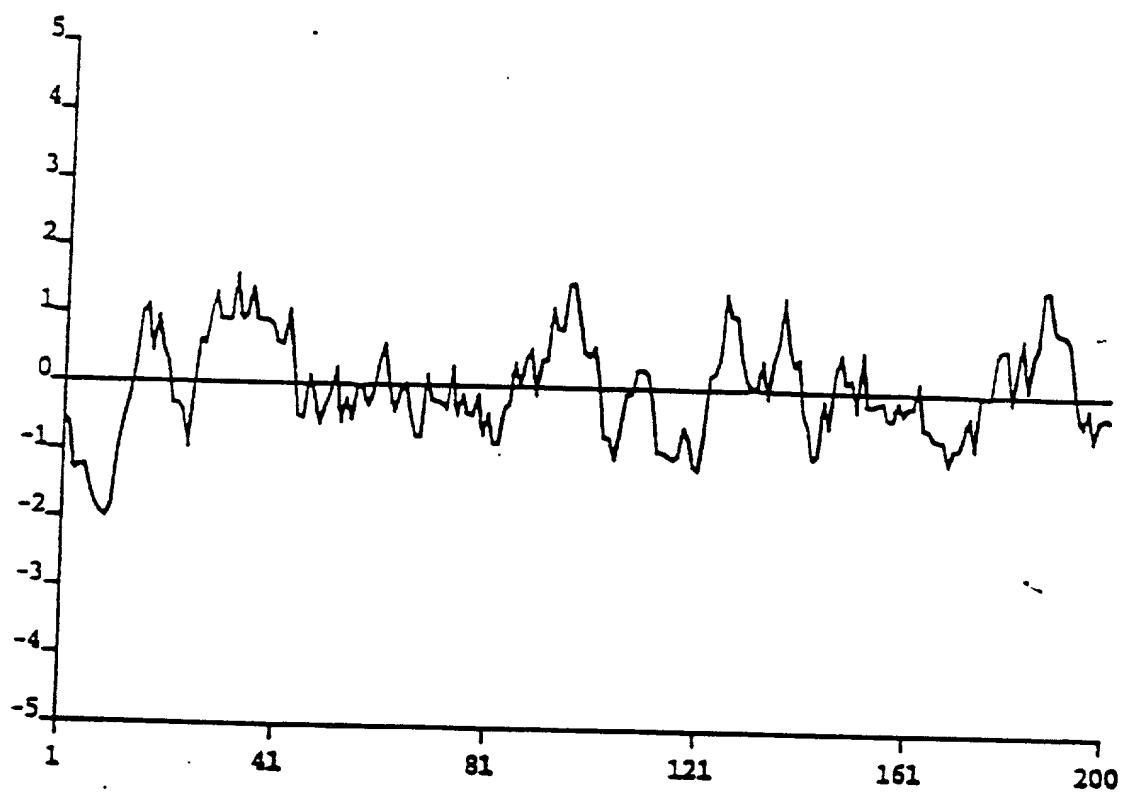


FIGURE 5

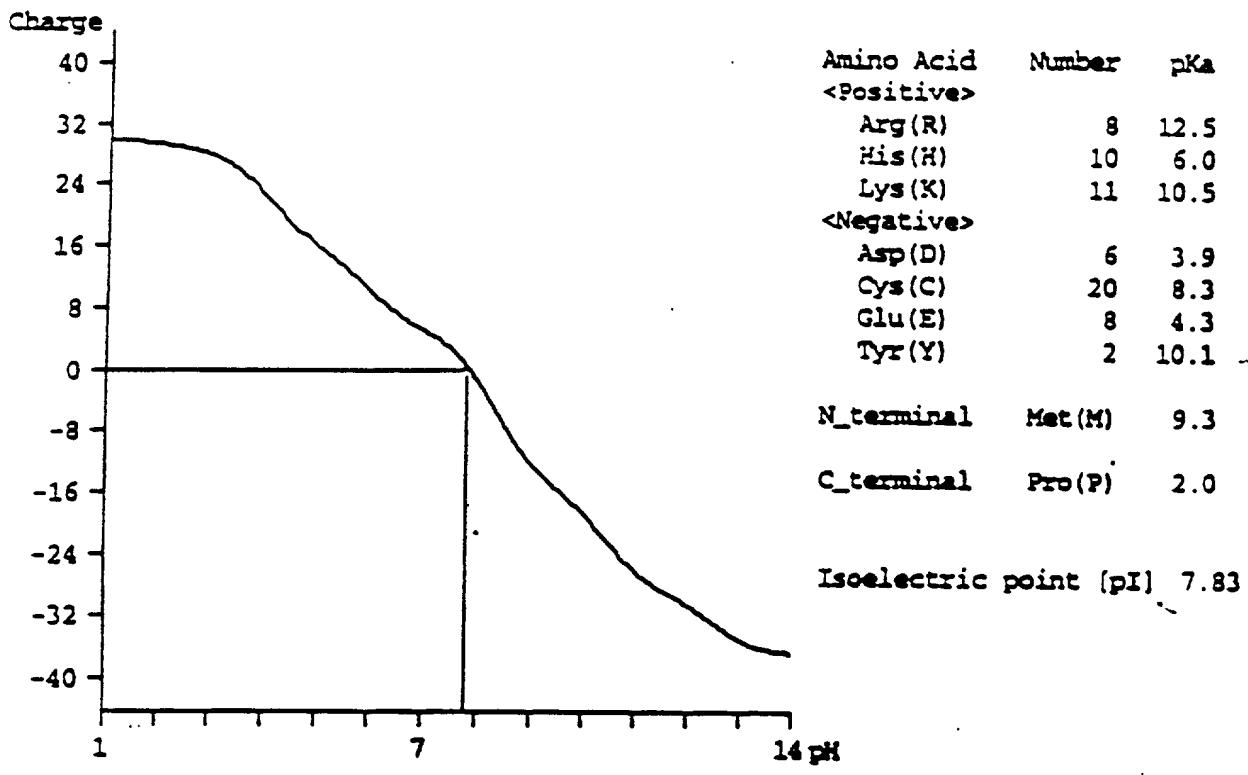


FIGURE 6

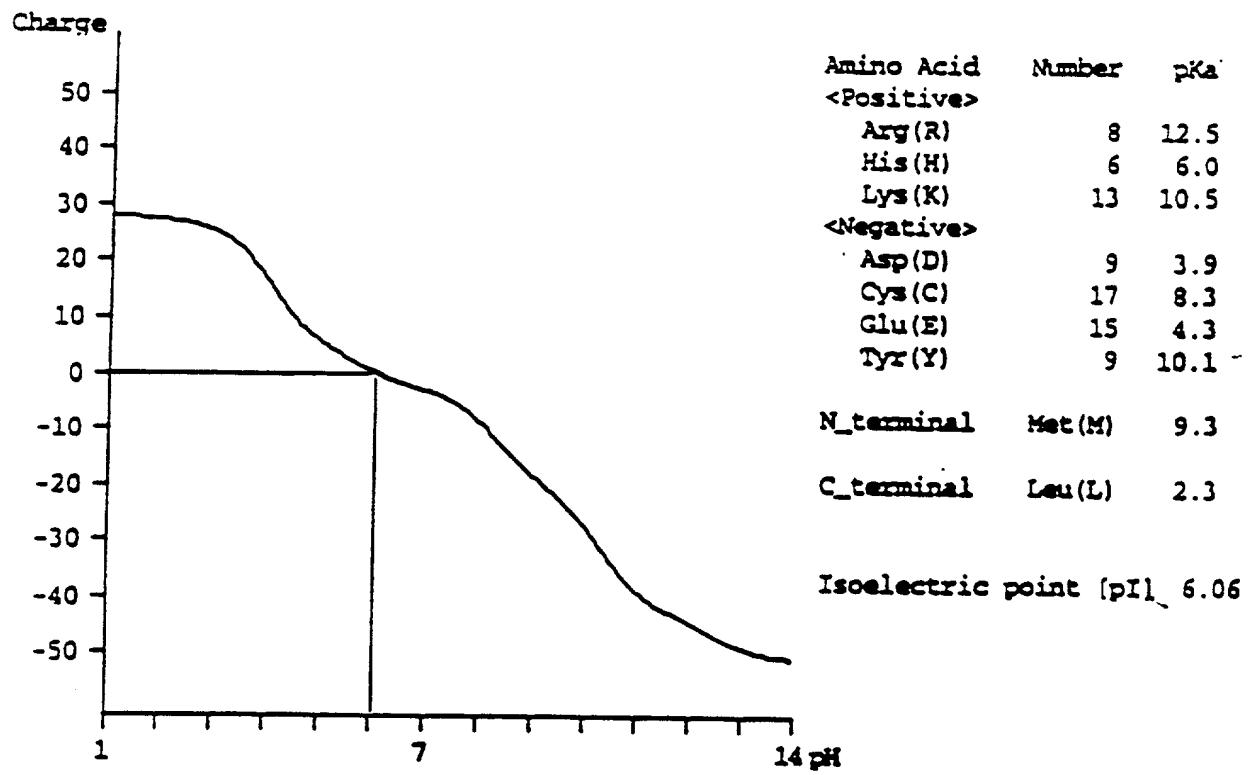


FIGURE 7